

TABLE OF CONTENTS

Biological Sampling: an overview	1
Tables 1a.-f. Sampling Priority Tables by Fishery	
Gillnet and Beach Seine Fisheries, Table 1a.....	4
Otter Trawl Fisheries, Table 1b.....	8
Shrimp Trawl Fishery, Table 1c.....	14
Scallop Fisheries, Table 1d.....	17
Lobster and Crab Pot Fisheries, Table 1e.....	19
Bottom Longline Fisheries, Table 1f.....	20
Table 2. Groundfish and Shellfish Sampling Requirements By Species.....	22
Length Measurement Illustrations	24
Age Structure Sample Collection	
Otoliths	26
Scales	28
Table 3. Pelagic Fish Sampling Requirements by Species	30
Pelagic Fish Length Measurement and Age Sample Parts Illustrations	32
Fish Tagging	33
Sex Determination	
Yellowtail Flounder & Redfish.....	34
Sharks & Tunas	35
Swordfish	36

American Lobster	38
Crabs	39
Table 4. Marine Mammal Sampling Requirements by Species	40
Marine Mammal Sampling Protocols	41
Sex Determination	42
Internal Organs	43
Sea Turtle Sampling Protocols	44
Selected Species Identification	
American Shad vs. Hickory Shad	46
Blueback Herring vs. Alewife	47
Little Skate vs. Winter Skate	48
Loligo Squid vs. Illex Squid	49
Atlantic Sturgeon vs. Shortnose Sturgeon	50
Small Tunas: Little Tunny vs. Atlantic Bonito vs. Skipjack Tuna	51
Catch Estimation Guidelines	52
Subsampling and Random Sampling Guidelines	54